

1                    CLAIMS  
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3                    1.        A method including steps of  
4                    receiving from a client a request for a web page;  
5                    updating a prediction map in response to said request and a referring web page for  
6                    said request, said prediction map associating said web page with at least one next page;  
7                    maintaining for said web page a set of templates, wherein said set of templates in-  
8                    clude at least one template for said at least one next page; and  
9                    sending said template for at least one next page, and delta information for said  
10                   web page to said client.

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12                   2.        A method as in claim 1, including the step of integrating said template  
13                   with said delta information and presenting said web page to said client.

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15                   3.        A method as in claim 1, wherein said referring page includes a reference  
16                   to an object previously requested by said client.

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18                   4.        A method as in claim 1, also including a step of sending a hint to said cli-  
19                   ent, wherein said hint includes a suggestion to download at least one said next page or the tem-  
20                   plate for that next page.

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22                   5.        A method as in claim 1, including steps of  
23                   calculating new delta information for said web page; and  
24                   conditionally building a new template in response to said new delta information;

1 wherein said new template is built when said new delta information exceeds a selected threshold.

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3 6. A method as in claim 1, including steps of

4 determining the number of changes made to a set of selected objects; and

5 conditionally building a new template in response to said number of changes;

6 wherein said new template is built when said number of changes exceeds a selected threshold.

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8 7. A method as in claim 6, wherein, wherein said selected threshold includes

9 a reference to one or more of the following: object age, object size, object type and operator se-  
10 lection.

11 8. An apparatus for predictive download of templates with delta encoding,

12 including

13 a delta encoder, wherein said delta encoder calculates delta information for a web  
14 page and evaluates the size of the delta information with respect to a threshold value;

15 a template builder; wherein said template builder calculates a new template for

16 said web page if the delta information for said web page exceeds said threshold value; and

17 a predictor; wherein said predictor determines a set of next web pages from said

18 web page and interacts with said template builder to build template for each next web page.

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21 9. An apparatus as in claim 8, wherein said threshold value includes a refer-  
22 ence to one or more of the following: object age, object size, object type and operator selection.

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1           10. An apparatus as in claim 8, wherein said template builder calculates at  
2 least one template for at least one next web page.

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4           11. An apparatus as in claim 8, wherein said predictor generates a hint,  
5 wherein said hint includes suggestions to a client what to download next.

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7           12. An apparatus as in claim 11, wherein said hint includes URLs of tem-  
8 plates for likely next pages.

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10          13. An apparatus as in claim 11, wherein said hint includes information for  
11 storing said template in said a client cache.

12  
13          14. A memory, storing information, including instructions, said instructions  
14 executable by a processor, said instructions including  
15           calculating delta information for a web page and evaluating the size of the delta  
16 information with respect to a threshold value;  
17           calculating a template for said web page if said delta information for said web  
18 page exceeds said threshold value;  
19           determining a set of next web pages from said web page;  
20           building at least one new template associated with said next web page; and  
21           sending a hint to a client, wherein said hint includes a suggestion what to down-  
22 load.  
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1           15. A memory as in claim 14, wherein said threshold value includes a refer-  
2       ence to one or more of the following: object age, object size, object type and operator selection.

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4           16. A memory as in claim 14, including an instruction for calculating at least  
5       one template for at least one next web page.

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7           17. A memory as in claim 14, including an instruction for generating a hint,  
8       wherein said hint includes suggestions to a client what to download next.

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